

AMENDMENTS TO THE CLAIMS

Please amend claims 1 and 3-21 as follows:

1. (currently amended) An optical communications apparatus, comprising:
 - (a) an optical integrated device comprising an input, one or more integrated optical component(s)-components and an output, arranged such that light received by the input is propagated by the one or more optical component(s)-components and exits the device as an output light beam;
 - (b) a light beam diverter arranged to divert a sample portion only of the power of the output light beam;
 - (c) a light detector arranged to detect the sample portion of the output light beam; and
 - (d) a polariser located between the light beam diverter and the light detector and/or between the output of the optical integrated device and the light beam diverter, the polariser being arranged such that if light of a predetermined polarisation is received by the optical integrated device, the polariser propagates light of that polarisation only, thereby substantially to prevent light other than that of the predetermined polarisation being detected by the light detector.
2. (original) An apparatus according to claim 1, further comprising a light source that generates light of the predetermined polarisation.
3. (currently amended) An optical communications apparatus, comprising:
 - (a) a light source arranged to generate light of a predetermined polarisation;
 - (b) an optical integrated device comprising an input, one or more integrated optical component(s)-components and an output, arranged such that the light generated by the light source is received by the input, is propagated by the one or more optical component(s)-components and exits the device as an output light beam;
 - (c) a light beam diverter arranged to deliver a sample portion only of the power of the output light beam;

(d) a light detector arranged to detect the sample portion of the output light beam;
and
(e) a polariser located between the light beam diverter and the light detector and/or between the output of the optical integrated device and the light beam diverter, the polariser being arranged to propagate the light of the predetermined polarisation only, thereby substantially to prevent light other than that of the predetermined polarisation being detected by the light detector.

4. (currently amended) An apparatus according to ~~claim 2 or claim 3, in which wherein~~ the light source comprises a laser, ~~preferably a diode laser~~.

5. (currently amended) An apparatus according to ~~claim 3, any one of claims 2 to 4, in which wherein~~ the light source comprises an integrated optical component of the optical integrated device.

6. (currently amended) An apparatus according to ~~any preceding claim 3, further~~ comprising an optical signal transmitter.

7. (currently amended) An apparatus according to ~~any preceding claim 3, in which wherein~~ the optical integrated device comprises a semiconductor device.

8. (currently amended) An apparatus according to ~~any preceding claim 3, in which at least one wherein~~ said integrated optical component comprises a modulator.

9. (currently amended) An apparatus according to claim 8, ~~in which wherein~~ the modulator applies a modulation to the light received by the input of the optical integrated device.

10. (currently amended) An apparatus according to ~~any preceding claim 3, in which wherein~~ the light beam diverter comprises a beam splitter.

11. (currently amended) An apparatus according to any preceding claim 3, in which wherein the sample portion of the output light beam comprises no more than 10% of the optical power of the output light beam.
12. (currently amended) An apparatus according to any preceding claim 3, in which wherein the light detector comprises a photodiode.
13. (currently amended) An apparatus according to any preceding claim 3, in which wherein the light detector comprises at least part of an optical power monitor that monitors the optical power output of the apparatus.
14. (currently amended) An apparatus according to claim 2 or claim 3, or any claim dependent thereon, including further comprising control means arranged to control the a light output of the apparatus in response to the light detected by the light detector.
15. (currently amended) An apparatus according to claim 14, further comprising control means arranged to control a light output of the apparatus in response to the light detected by the light detector, wherein when dependent upon claim 13, in which the optical power monitor and the control means together monitor and control the optical power output of the apparatus.
16. (currently amended) An apparatus according to any preceding claim 3, in which wherein the predetermined polarisation of the light comprises a predetermined plane polarisation.
17. (currently amended) An apparatus according to claim 16, in which wherein the predetermined polarisation comprises horizontally plane polarised light, i.e. TE polarised light.
18. (currently amended) An apparatus according to any preceding claim 3, in which wherein the polariser comprises a plane polariser.

19. (currently amended) An apparatus according to ~~any preceding claim 3, including further comprising~~ a lens located between the beam diverter and the light detector, to direct substantially all of the sample portion of the light beam, such that it is detected by the light detector.
20. (currently amended) An apparatus according to ~~any preceding claim 3~~, further comprising an additional polariser arranged in the path of that part of the output light beam not diverted by the light beam diverter, the polariser being arranged to propagate light of the predetermined polarisation only, thereby substantially to prevent light other than that of the predetermined polarisation being transmitted by the apparatus.
21. (currently amended) An apparatus according to ~~any preceding claim 3~~, further comprising a source of electrical current arranged to apply a generally constant electrical signal to counteract any generally constant background optical noise detected by the light detector.